

ture of the Glas. And if you add the brighter half of the Red, (that half which is next the Orange, and the brighter half of the Green, (that half which is next the Yellow,) about three fifth parts of the Light of these two Colours will fall within the same Circle, and two fifth parts will fall without it round about; and that which falls without will be spread through almost as much more space as that which falls within, and so in the gross be almost three times rarer. Of the other half of the Red and Green, (that is of the deep dark Red and Willow Green) about one quarter will fall within this Circle, and three quarters without, and that which falls without will be spread through about four or five times more space than that which fall within; and so in the gross be rarer, and if compared with the whole Light within it, will be about 25 times rarer than all that taken in the gross; or rather more than 30 or 40 times rarer, because the deep red in the end of the Spectrum of Colours made by a Prism is very thin and rare, and the Willow Green is something rarer than the Orange and Yellow. The Light of these Colours therefore bring so very much rarer than that within the Circle, will scarce affect the Sense especially since the deep Red and Willow Green of this Light, are much darker Colours than the rest. And for the same reason the Blue and Violet being much darker Colours than these, and much more rarified, may be neglected. For the dense and bright Light of the Circle, will obscure the rare and weak Light of these dark Colours round about it, and render them almost insensible. The sensible Image of a lucid point is therefore scarce broader than a Circle whose Diameter is the 250th part of the diameter of the aperture of the Object Glas of a good Telescope, or not much broader, if you except a faint and dark misty light round about it, which a Spectator will scarce regard. And therefore in a Telescope whole

whose aperture is it exceeds not 2" aperture is two Inches be 5" or 6" and Experience: For meters of the fixt and sixty Feet in 6" in Diameter. with the smoke of of the Star, the fa Star ceases to be v ently soiled with s thematical Point. part of the Light i ought to be less longer, because the

Now if we sup to be even 250 t. Glas: yet were it Rays, its breadth is 4 Inches would nifest by the foreg this Case the great of the Glas, wou sing from the diff to $\frac{4}{250}$ at most, th ciently shews that but the different re perfection of Tele

There is another the different refran imperfection of T arising from the f